TERNATIONAL SEARCHING AUTHORITY To: SEMICONDUCTOR ENERGY LABORATORY CO., LTD. By 8, Hase, Atsugi-shi, Kanagawa 2430036 Japan WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference CO000PCT7731 International application No. International filing date (day/month/year) International application No. Priority date (day/month/year)	PATEN	T COOPER	RATION TRI	LAIY
PCT 398, Hase, Atsugi-shi, Kanagawa 2430036 Japan WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) 10.05.2005 PROFITHER ACTION See paragraph 2 below PCT/JP2005/002681 International application No. PCT/JP2005/002681 International faling date (day/month/year) PCT/JP2005/002681 International faling date (day/month/year) PCT/JP2005/002681 International Fatent Classification (PC) or both national classification and PC Int.Cl. B05D1/26, H01L21/28, 21/288, 21/3205, 21/336, 29/786 Applicant SEMICONDUCTOR ENERGY LABORATORY CO., LTD: In this opinion contains indications relating to the following items: Box No. II Box No. II Frority Box No. II Frority Box No. VI Catchin defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application From No. VII Certain defects in the international application From No. VII Certain defects in the international application From No. VII Certain defects in the international application From No. VII Certain defects in the international application From No. VII Certain defects in the international application From No. VIII Certain defects in the international application From No. VIII Certain defects in the international application From No. VIII Certain defects in the international application From No. VIII Certain defects in the international application From No. VIII Certain defects in the international Breat under Rule 66.1 bis(b) that writ opinions of this International Searching Authority ("IPEA") except that this does not apply where the applicant chooses an Author other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that writ opinions of this International Searching Authority ("IPEA") except that this does not apply where the applicant chooses an Author other than this one to b	om the TERNATIONAL SEARCHING AUTHORIT	Υ .	•	REC'D 12 MAY 2005
PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (deg/month/year) 10.05.2005 Rephicant's or agent's file reference 00000 PCT 7731 The FURTHER ACTION See paragraph 2 below 15.02.2005 International application No. PCT / JP2005/002681 International Patent Classification (IPC) or both national classification and IPC Int.01 B05D1/26, H01L21/28, 21/288, 21/3205, 21/336, 29/786 Applicant SEMICONDUCTOR ENERGY LABORATORY CO., LTD. I. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. V Cartain documents cited Box No. VI Certain defects in the international application Box No. VI Certain defects in the international application Box No. VI Certain defects in the international application Box No. VI Certain defects in the international application Box No. VI Certain defects in the international application Box No. VI Certain defects in the international application Box No. VI Certain defects in the international application Box No. VI Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the international application Box No. VII Certain defects in the		BORATORY		WIPO PCT
Applicant's or agent's file reference OOOOPCT7731 International application No. PCT/JP2005/002681 International application (IPC) or both national classification and IPC Int.Cl' B05D1/26, H01L21/28, 21/288, 21/3205, 21/336, 29/786 Applicant SEMICONDUCTOR ENERGY LABORATORY CO., LTD. I. This opinion contains indications relating to the following items: Box No. 1 Basis of the opinion Box No. 1 Priority Box No. II Priority Box No. II Priority Box No. V Cack of unity of invention Box No. V Certain documents cited Box No. V1 Certain documents cited Box No. V1 Certain defects in the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the Than this one to be the UPEA and the chosen IPEA has notified the International Bureau under Rule 66. Ibis(b) that writ opinions of this International Streiminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Author other than this one to be the UPEA and the chosen IPEA has notified the International Bureau under Rule 66. Ibis(b) that writ opinions of this International Streiminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Author other than this one to be the UPEA and the chosen IPEA has notified the International Bureau under Rule 66. Ibis(b) that writ opinions of this International Scarcing Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the Pa written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220.		inagawa	WR INTERNATI	ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY
International application No. PCT/JP2005/002681 15.02.2005 Priority date (day/month/year) International Flining date (day/month/year) Priority date (day/month/year) 17.02.2004 International Patent Classification (IPC) or both national classification and IPC Int.Cl. B05D1/26, H01L21/28, 21/288, 21/3205, 21/336, 29/786 Applicant SEMICONDUCTOR ENERGY LABORATORY CO., LTD. I. This opinion contains indications relating to the following items: PBox No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FBox No. VIII Certain observations on the international application FIGURATION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of international Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Author other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that writ opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IP a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220.	_			10.05.2005
International application No. PCT/JP2005/002681 International filing date (day/month/year) 15.02.2005 Priority date (day/month/year) 17.02.2004 International Patent Classification (PC) or both national classification and IPC Int.Cl. B05D1/26, H01L21/28, 21/288, 21/3205, 21/336, 29/786 Applicant SEMICONDUCTOR ENERGY LABORATORY CO., LTD. I. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. II Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. VI Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VII Certain observations on the international application Proving Action of this International Preliminary examination is made, this opinion will be considered to be a written opinion of international Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Author opinions of this International Sarching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IP a written opinion, see Form Pct7/ISA/220.	Applicant's or agent's file reference		FOR FURTHER A	
Applicant SEMICONDUCTOR ENERGY LABORATORY CO., LTD. 1. This opinion contains indications relating to the following items: Box No. 1				
1. This opinion contains indications relating to the following items: Pack No. 1 Basis of the opinion	International Patent Classification (IPC) or bo	oth national classific 3, 21/288,	ation and IPC 21/3205, 21	/336, 29/786
Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application Certain observations on the international application PURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Author other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that writ opinions of this International Scarching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IP a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.	Applicant SEMICONDUCTOR ENERGY	Y LABORAT	ORY CO., L	D.
	Box No. II Priority Box No. III Non-establishmen Box No. IV Lack of unity of ir Box No. V Reasoned statemer citations and explain Box No. VI Certain document Box No. VII Certain defects in Box No. VIII Certain observation 2. FURTHER ACTION If a demand for international prelimin International Preliminary Examining Au other than this one to be the IPEA and opinions of this International Scarchin If this opinion is, as provided above, co a written reply together, where appropria PCT/ISA/220 or before the expiration of For further options, see Form PCT/ISA/230.	t of opinion with regardention at under Rule 43bis. anations supporting as cited the international approximation on the international approximation is any examination is atthough the chosen IPEA has a Authority will not support to be a writer, with amendment 122 months from the 220.	n(a)(i) with regard to not such statement plication nal application made, this opinion will cept that this does not as notified the Internation to the IPE. So before the expiration of the IPE.	I be considered to be a written opinion of apply where the applicant chooses an Authoronal Bureau under Rule 66.1bis(b) that write A, the applicant is invited to submit to the IP of 3 months from the date of mailing of Form
	Date of completion of this opinion	19.04.20	Authorized officer	4M 2 9 3

- 1	Date of completion of this opinion 17.04.200.	·			
	Name and mailing address of the ISA/JP	Authorized officer		4M	2934
		TAKASHI WATAHIKI	T7t	3460	
	3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101	EXI.	3460	

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/002681

Box	r No. I	Basis of the opinion	· · · · · · · · · · · · · · · · · · ·
1.	which it	was filed, unless otherwise indicated under this item.	on the basis of the international application in the language in
	Th Th	ois oninion has been established on the basis of a transl	ation from the original language into the following language ation furnished for the purposes of international search (under
	Rı	ules 12.3 and 23.1(b)).	
2.	With reg	eard to any nucleotide and/or amino acid sequence d	isclosed in the international application and necessary to the
	claimed	invention, this opinion has been established on the basis	of:
	a. type o	f material	
		a sequence listing	
	Γ	table(s) related to the sequence listing	· ·
		at of material	
		in written format	
-	٣	in computer readable form	·
	c. time (of filing/furnishing	
		contained in the international application as filed.	
		filed together with the international application in co	
	<u> </u>	furnished subsequently to this Authority for the purp	oses of scarcif.
3.	-	n addition, in the case that more than one version or co iled or furnished, the required statements that the inform n the application as filed or does not go beyond the ap	opy of a sequence listing and/or table relating thereto has been nation in the subsequent or additional copies is identical to that plication as filed, as appropriate, were furnished.
4.	Addition	nal comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/002681

Box No. V Reasoned statement us citations and explanat	nder Rule 43bi ions supportin	s.1(a)(i) with regard to novelty, inventive step g such statement	or musicial approaching
. Statement			
Novelty (N)	Claims Claims	2-22	YES NO
Inventive step (IS)		8,13-15,17-22 1-7,9-12,16	YES NO
Industrial applicability (IA)	Claims Claims	1-22	YES NO

2. Citations and explanations

D1:JP 11-207959 A (SEIKO EPSON CORPORATION) 1999.08.03,

WHOLE DOCUMENT, FIG. 8 (FAMILY: NONE)

D2:JP 2003-59940 A (FUJI PHOTO FILM CO., LTD.) 2003.02.28, WHOLE DOCUMENT, FIGS. 1-4 (FAMILY: NONE)

The subject matter of claim 1 does not appear to be novel with respect to D1 cited in the ISR.

D1 discloses that the droplet flows into the lyophilic region from the non-lyophilic region and the amount of the droplet is enough to overflow from one lyophilic region.

Therefore the droplet flowing into the lyophilic region from the non-lyophilic region is a part of the droplet dropped on the non-lyophilic region.

[Claims 2-7, 9-12, 16].

The subject matter of claims 2-7,9-12,16 does not appear to involve an inventive step in view of D1 and D2.

The method of using a photocatalyst is known in the art for forming a lyophilic region and a non-lyophilic region, as described in D2.

[Claims 8, 13-15, 17-22]

The subject matters of claims 8,13-15,17-22 are neither disclosed in any of the documents cited in the ISR nor obvious to a person skilled in the art.

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PATENT COOPERATION TREATY

From the		
INTERNATIONAL	SEARCHING	AUTHORITY

SEMICONDUCTOR ENERGY LABORATORY CO., LTD.

398, Hase, Atsugi-shi, Kanagawa 2430036 Japan

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)

Date of mailing (day/month/year)

10.05.2005

Applicant's or agent's file reference 00000PCT7731

See paragraph 2 below

International application No. PCT/JP2005/002681 International filing date (day/month/year) 15.02.2005

Priority date (day/month/year) 17.02.2004

FOR FURTHER ACTION

International Patent Classification (IPC) or both national classification and IPC

Int.Cl. B05D1/26, H01L21/28, 21/288, 21/3205, 21/336, 29/786

Applicant

SEMICONDUCTOR ENERGY LABORATORY CO., LTD.

1.	This opinion contains indications relating to the following items:						
	P	Box No. I	Basis of the opinion				
	_	Box No. II	Priority				
	Г	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	<u> </u>	Box No. IV	Lack of unity of invention				
	V	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Г	Box No. VI	Certain documents cited				
	Г	Box No. VII	Certain defects in the international application				
	Γ.	Box No. VIII	Certain observations on the international application				

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Scarching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

For further details, see notes to Form PCT/ISA/220.

Date of completion of this opinion 19.04.200	5				
Name and mailing address of the ISA/JP	Authorized officer		4M	293	4
	TAKASHI WATAHIKI	_			
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101	Ext.	3460		

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2005/002681

Bo	k No. I	Basis of the opinion
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	a. type of r	naterial
	Γ-	a sequence listing
	T	table(s) related to the sequence listing
	b. format (
	Γ Γ	in written format in computer readable form
•	•	in company tourists tour
		Sting (Completing
	c. time of	filing/furnishing contained in the international application as filed.
	i -	filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
_		addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been
3.	£1	d or furnished, the required statements that the information in the subsequent or additional copies is identical to that he application as filed or does not go beyond the application as filed, as appropriate, were furnished.
		the application as fixed of does not go 2-3-22 and 1,1
4.	Additiona	i comments:
•		
1		

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/002681

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; Box No. V citations and explanations supporting such statement

Statement

Novelty (N)	Claims	2-22	YES NO
Inventive step (IS)	Claims Claims Claims	8,13-15,17-22 1-7,9-12,16	YES NO
Industrial applicability (IA)	Claims Claims	1-22	YES NO

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